



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 13, 2016

Ms. Jessica Goldberg  
Chemsico  
Division of United Industries  
P.O. Box 142642  
St. Louis, MO 63114-0642

Subject: PRIA Label Amendment – Efficacy data on bedbugs (MRID 49838401)  
Product Name: Chemsico Insecticide DE  
EPA Registration Number: 9688-173  
Application Date: February 11, 2016  
Decision Number: 513945

Dear Ms. Goldberg:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Page 2 of 2  
EPA Reg. No. 9688-173  
Decision No. 513945

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Linda A. DeLuise by phone at 703-305-5428, or via email at [deluise.linda@epa.gov](mailto:deluise.linda@epa.gov).

Sincerely,

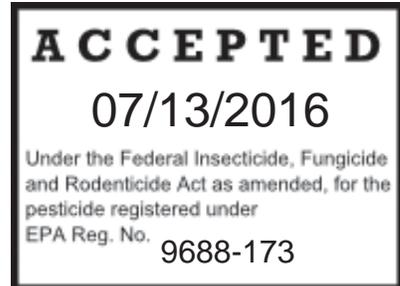
A handwritten signature in black ink, appearing to read "Gebken", written in a cursive style.

Richard Gebken  
Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Office of Pesticide Programs

Enclosure

# ***CHEMSICO Insecticide DE***

*See Appendix for optional marketing claims & language*



**ACTIVE INGREDIENT:**

Silicon Dioxide.....	85%
OTHER INGREDIENTS .....	15%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION** See [back] [side] for additional precautionary statements

**NET WEIGHT** 1 LB (16 oz /453g)

**STOP.** READ ENTIRE LABEL BEFORE USE.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### [HOW TO APPLY] [APPLICATION INSTRUCTIONS] [HOW TO USE]

#### [OPTIONAL INSTRUCTIONS FOR BAGGED PRODUCT]

Apply Chemsico Insecticide DE with a hand duster, power duster, or squeeze bottle for application to areas where crawling insects are found. Apply to cracks and crevices and other areas as directed. Use adequate ventilation and avoid breathing dust. Wear a suitable dust mask when using this product during prolonged exposure.]

#### [OPTIONAL INSTRUCTIONS FOR BOTTLED PRODUCT]

Remove protective cap and snip off end of applicator. Replace protective cap after use. Use adequate ventilation and avoid breathing dust. Wear a suitable dust mask when using this product during prolonged exposure.

### [WHERE TO USE] [USE SITES]

#### INDOOR [USE]

**Cockroaches, Ants, Earwigs, Millipedes and Centipedes, Crickets and Silverfish:** Lightly coat a thin layer of Chemsico Insecticide DE in areas where these pests are found and may hide such as cracks and crevices, behind and beneath refrigerators, cabinets, stoves, garbage cans and in and around sewer pipes and drains, window frames and in attics and basements. Dust [Apply to] insects directly if possible. Repeat application when dust is no longer present and insects are observed.

**[Fleas:** Thoroughly treat floor and bedding in and around pet sleeping quarters. Treat surrounding cracks and crevices, baseboards, carpeting and wherever fleas are suspected.]

**[Carpet Beetles:** Dust along baseboards, carpet edges, under carpeting, furniture, in closets and shelving where these insects are seen or suspected.]

**[Bed bugs:** Disassemble the bed frame and remove bedding. Do not apply product to bedding. Apply this product to the bed frame, mattress and box spring. Application to mattresses and box springs is intended for treatment of seams, edges and tufts [creases][folds][indentations][buttons][vent holes] only. Do not treat the entire surface of the mattress or box spring. After four hours, vacuum the dust from the mattress. Also apply the product to cracks and crevices in the sleeping area such as baseboards, behind pictures/wall hangings, along and underneath carpet edges and other articles/furniture in the bedroom or sleeping area. Do not apply to stuffed animals or toys.]

#### OUTDOOR [USE]

**Cockroaches, Earwigs, Millipedes, Centipedes, Slugs, Grasshoppers, Ants, Crickets and other crawling insects:** Lightly coat areas where these insects are found or may hide such as patios, planting beds, outdoor sills, window and door frames, outside of entrance ways. Dust around foundations, along ant trails and around sewer pipes and drains.

## STORAGE AND DISPOSAL

**Storage:** Store in a cool dry area. **Disposal: If empty:** Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## PRECAUTIONARY STATEMENTS

### Hazards To Humans And Domestic Animals

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### FIRST AID

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Call a Poison Control Center or doctor for treatment advice.

**Hot Line Number.** Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact 1-800-332-5553 for emergency medical treatment information.

## ENVIRONMENTAL HAZARDS

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

**NOTICE: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.**

[\*If you are not satisfied with this product, please send your written request for a refund to the address below, together with the original store receipt showing the price you paid. Please allow 6-8 weeks for processing.]

[The Garden Safe Promise – Satisfaction guaranteed or your money back, If you apply this product as directed and you are not completely satisfied, send proof of purchase from this package and the original cash register receipt to the address above, We will refund the purchase price you paid.]

[Questions or Comments: Call toll free 1-800-332-5553 or visit our website [www.hotshot.com](http://www.hotshot.com)]

Made in the USA by Chemsico  
Division of United Industries Corporation  
PO Box 142642  
St. Louis, Missouri 63114-0642

EPA Reg. No. 9688-173  
EPA Est. No.: 9688-MO-1 © 2016

**Optional Marketing Claims**

1. Kills Cockroaches, Ants, Silverfish, Beetles, [and Other Crawling Insects as listed]
2. [Also] kills cockroaches, ants, fleas, silverfish, beetles, earwigs, millipedes, centipedes, crickets, slugs, grasshoppers
3. [Also] [use to] kill cockroaches, ants, fleas, silverfish, beetles, earwigs, millipedes, centipedes, crickets, slugs, grasshoppers
4. Kills listed insects [bed bugs] by contact
5. Kills listed insects [bed bugs] by dehydration
6. Kills bed bugs within 11 days of contact
7. [Bed bug] Treatment
8. Treat bed bugs [and fleas]
9. Contains Diatomaceous Earth
10. Kills listed Crawling Insects
11. For use Indoors and Outdoors
12. Non-staining
13. [Satisfaction] [Guaranteed\*][to Work or Your Money Back] • [Money Back Guarantee\*]
14. Can be used on [Mattresses][Baseboards][in Cracks & Crevices]
15. Can be used around wall voids, on carpet tack strips and carpet edges
16. For use in [around] wall voids, on carpet tacks strips and carpet edges
17. Easy to apply [crack and crevice][puffer][bottle]
18. Easy to use [crack and crevice][puffer][bottle]
19. **Where to Use:** Dust around bed frames, mattresses, box springs, and within cracks and crevices in the sleeping area.
20. **Application:** Lightly coat in areas where listed pests are found and may hide. Keep dry.

**PRODUCT FACTS**

**WHAT IT DOES:** Kills cockroaches, ants, slugs, fleas, beetles, silverfish and other crawling insects as listed.

**WHERE TO USE:** **Indoors** in cracks & crevices, baseboards, and mattresses

**Questions & Comments:** (phone icon) (computer icon). Call 1-800-332-5553

(Note to Reviewer: The text on this page will appear on the back label panel of the product)

[Bed Bug Home Protection Plan] [Bed Bug Home Protection Cycle] [Bed Bug 3-Step Process]  
[GRAPHICAL ICON identifying the steps: Detection, Treatment, Prevention]



**FOR BEST RESULTS** USE THIS PRODUCT AS PART OF A COMPREHENSIVE BED BUG TREATMENT PLAN. Visit our website, [www.hotshot.com](http://www.hotshot.com), for more information.

Treating bed bugs as part of a cycle is key to gaining control. Because infestations may be at a different part of the cycle when treatment begins, the information below will help you determine the best place to begin.

#### **DETECTION**

If you have not seen any bed bugs or are in prevention mode and want to ensure you are still bed bug free, you want to detect using a combination of the following products:

- **[Hot Shot® Bed Bug] Interceptor**
- **[Hot Shot Bed Bug] Coaster**
- **[Hot Shot® Bed Bug] Glue Traps**

#### **TREATMENT**

If you have detected bed bugs by using the products above, being bitten or observing bed bugs, bed bug eggs or excrement in mattress tufts and bedding, you want to choose from one or more of the following product types depending on your needs:

- **Use an aerosol product registered to treat bed bugs [and bed bug eggs] in cracks and crevices.**
- **Use a ready-to-use liquid product registered to treat bed bugs [and bed bug eggs] for spot treatment.**
- **Use a total release fogger registered to treat bed bugs [and bed bug eggs] for areas such as carpet, mattress & box spring surfaces and furniture surfaces.**
- **Use a mattress treatment kit registered to treat bed bugs [and bed bug eggs] for mattresses and other household items.**

#### **PREVENTION**

To help prevent the spread of bed bugs from already infested areas into uninfested areas, you want to use an appropriate mattress and box spring encasement.

*(Note to Reviewer: The following text is optional language educating the consumer on the steps necessary to approach a bed bug problem. When included in the label, the text in full will be on the product label which will be firmly affixed to the product container).*

[Bed Bug Home Protection Plan] [Bed Bug Home Protection Cycle] [Bed Bug 3-Step Process]

#### **Detection**

While bites may be the first indicator you have a bed bug problem, bites alone are not proof you have a bed bug problem since bites from ticks, fleas and mosquitoes can resemble bed bug bites. The only way to know for sure is to find and identify the bugs.

Look for:

- Small reddish brown bugs the size of an apple seed
- Small blood stains or dark excreta spots
- Dead bed bugs, shed skins or small whitish eggs
- A sweet or musty odor in the room

A thorough inspection is mandatory. Bed bugs are very good hidiers, so be sure to look in such places as:

- mattresses & box springs – around seams, creases, tufts, buttons, folds, vent holes & indentations
- bed frames – take apart bed frame to inspect cracks and crevices
- bedding & linens
- headboards & footboards
- nightstand & dresser drawers
- storage boxes, including those under beds
- furniture & upholstered furniture cushions
- pull out couches & sofa beds
- curtains & curtain rods
- rugs & tapestries
- cribs & changing tables
- chairs
- luggage & folding luggage racks
- wooden hangers
- clothing
- shoes & shoe boxes
- picture frames & wall hangings
- loose wallpaper or paneling
- wall voids & outlets – behind switchplates
- electrical boxes
- baseboards & floorboards
- carpeting & carpet tack strip
- crown molding
- door & window casings
- files, papers, books & magazines
- smoke detectors, thermostats, alarm clocks, telephones, radios and other electronics
- stuffed animals and plush toys
- pet carriers

Be thorough! Any little crack or crevice can be a bed bug hiding place.

Bed bugs prefer to stay close to their food source (you!) and are typically found within 1-5 feet of sleeping areas and furniture that is frequently occupied.

Detection devices [such as interceptors] [coasters] that are placed anywhere in the room, including under the legs of beds, couches or other furniture, or sticky glue traps can be used to monitor for bed bug activity. You may not notice any bed bug activity for 7-14 days and, even then, monitors will not detect 100% of the time. However, they can provide a barrier between the floor and bed and can be a very useful as part of an integrated pest management program.

### Treatment

Bed bugs are challenging to eliminate because they can hide in many different places. Once detected, several steps must be taken to treat properly. Inspections must be thorough and elimination, especially of eggs, is not always a certainty. Treating for bed bugs is not the same as treating for other insects such as roaches and ants. Baits typically used to treat for roaches or ants are ineffective because bed bugs must bite and feed on blood. As a result, multiple treatments and treatment steps over several weeks as part of an integrated pest management program are necessary. Non-chemical and chemical options include:

- **Declutter:** Eliminate all clutter where bed bugs can hide. It is clutter, not uncleanliness, that puts you at risk for a bed bug infestation.
  - **Vacuum:** Vacuum the entire area thoroughly, including the underside of the mattress, box spring and furniture, as well as the carpets and floor. Disassemble the bed and vacuum all bed components. Bed bugs and especially their eggs can be difficult to dislodge so use the vacuum's suction wand or crevice tool to scrape the infested area. Immediately discard the vacuum contents into a tightly sealed trash bag. Vacuuming every 2-3 days for 14 days is recommended.
  - **Heat Treat:** Dry-wash-dry. First place clothing, bedding, etc. in the dryer for at least 45 minutes at a high temperature (120-140° F). Then, wash and dry all clothing, bedding, etc. at high temperatures (120-140° F). Be careful while stripping the bed so as to not dislodge bed bugs or eggs. Seal in a plastic bag before laundering to avoid spreading bed bugs and again after laundering in a new, clean plastic bag while you finish the treatment process so as to prevent reinfestation. Place toys, shoes, backpacks, etc. in a clothes dryer set at medium to high heat for 10-20 minutes. Wrap items that cannot be put in a washer or dryer in a large plastic bag and place them outdoors in a hot, sunny location or closed vehicle for at least a day. The fewer items packed in each bag, the better. Monitor with a thermometer for a target temperature of at least 120°F. Dry cleaning will have the same effect.
  - **Apply Insecticides:** One step in eliminating bed bugs is to carefully apply insecticides registered to treat bed bugs [and bed bug eggs] to all areas where bed bugs are detected. Controlling bed bugs using non-chemical means alone is often very difficult, potentially less effective and usually more time consuming.
    - Carefully read and follow label directions.
    - Allow product to dry completely.
    - Do not sleep directly on treated mattress.
    - We recommend carefully inspecting the area and reapplying insecticides after 2 weeks to kill bed bugs that later hatch from eggs, along with those that were missed during earlier treatment.
  - **Cracks & Crevices:** Use an aerosol to treat the cracks and crevices of the bed frame, mattress & box springs, luggage and other hard to reach places, contacting as many of the insects as possible. A dust is best in electrical outlets, wall voids, carpet tack strips and bed frames.
  - **Spot Treatment:** Use a liquid insecticide for spot treatment of the mattress, box spring & bed frame, baseboards, carpet & tack strips and luggage, contacting as many insects as possible.
  - **Area Treatment:** Use a fogger for larger areas or heavy infestations.
  - **Barrier Treatment:** Use a dust to create a barrier around your baseboards, wall voids, electrical outlets and other entrance points.
  - **Mattress & Household Items:** To treat the mattress, box spring, furniture and other large household items that cannot be washed, a [household item] [mattress and luggage treatment kit] containing a large sealable plastic bag and bed bug pest strip can be used.
- **Dispose Infested Items:** For items that cannot be treated by vacuuming, heat, laundering or insecticides, tightly wrap and seal in a large plastic bag prior to disposing. Destroy or mark "Infested with Bed Bugs" to prevent someone else from picking them up.

If after one month you are still experiencing a severe bed bug infestation, please contact your local professional pest management company.

### Prevention

Proper steps must be taken to prevent an initial or reinfestation. These include:

- **Isolating the Bed:** Move your bed and other furniture away from the wall slightly. Remember, bed bugs do not fly or jump! Making sure the bed skirt and blanket do not touch the floor will make it harder for bed bugs to crawl onto the bed. **Sealing Cracks & Crevices:** Seal openings in window sills, baseboards, floorboards, furniture, bed frames and where pipes or wires or other utilities

enter the home. Fix or take down any peeling wall paper. Tighten loose switch covers. Installing door sweeps will help discourage movement into hallways.

- **Manage the Environment:** Eliminate clutter. Launder bedding and clean furniture routinely. Vacuum often and thoroughly. Thoroughly inspect purchased furniture before bringing it home, especially if it was purchased used. Avoid purchasing used furniture. Monitor previously infested or likely to be infested sites daily. Remove evidence of previous infestations. Restart treatment process if necessary.

Bed bugs are typically transported from place to place as people travel, so it is important to take proper precautionary steps when traveling. Also make sure any visiting guests are not transporting bed bugs in their luggage.

- **Prior to Travel:**
  - DO Spray luggage and allow to dry completely with a product registered to treat bed bugs [and bed bug eggs] and for use on luggage.
  - DO Pack clothing and other items in sealable plastic bags. Bring extra resealable plastic bags for soiled clothing.
- **At Hotel/Destination:**
  - DO check for signs of bed bugs by examining the cracks and crevices of the mattress, box spring, sheets, bedding, headboard, nightstand & dresser drawers, desks, chairs, and other furniture; behind wallpaper and pictures; in clocks and other electronics; in cracks in wood floors; and under the edge of the carpet. Carrying a small flashlight such as the [insert product name here] will help you quickly and thoroughly inspect for signs.
  - DO change rooms immediately, or change hotels entirely, if you identify bed bugs in your hotel room.
  - DO NOT put your suitcase on the bed. Elevate all luggage off the floor using a luggage rack (inspect first), tabletop or other hard surface. The best place is in the bathroom, especially the tub.
  - DO NOT unpack your suitcase contents into dressers.
  - DO check clothes hangers thoroughly before unpacking. Bed bugs hide in the cracks and crevices of hangers so a thorough inspection is necessary before hanging up clothes, especially if the hangers are wooden.
  - DO re-pack luggage contents into sealable plastic bags so you can throw them directly in the dryer when you return home to kill any bed bugs or eggs that may be nestled in the clothing.
- **Returning Home:**
  - DO NOT unpack luggage inside. Unpack luggage outside, or in a garage, laundry room or utility room.
  - DO remove the items you placed in plastic bags at the hotel, and throw them immediately into the dryer, set on the highest heat setting the fabric can withstand to kill any bed bugs or their offspring that may be nestled in the items.
  - DO inspect luggage and clothing for signs of bed bug activity. If signs are found, treat luggage by vacuuming, laundering (scrubbing with hot, soapy water) and/or insecticides.
  - DO store luggage in sealed bags and keep them in a closet or garage. If you are exposed to a bed bug infestation, there is no reason to throw out your luggage and clothing unless your infestation is severe. The key is to contain all items suspected of carrying bed bugs in plastic bags until you can treat them.

These steps are very important, and must be done carefully, consistently and cyclically. Bed bugs are resilient creatures that will not go away without intervention.

A comprehensive, continuous cycle of Detection → Treatment → Prevention is the key to gaining control.